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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN THE APPLICATION OF:

STEVEN GUTTERIDGE ET. AL.

CASE NO.: BB1533USNA

APPLICATION NO.: 10/668767

CONFIRMATION NO.: UNKNOWN

GROUP ART UNIT: UNKNOWN

EXAMINER: UNKNOWN

FILED: SEPTEMBER 23, 2003

FOR: ISOLATION AND USE OF RYANODINE RECEPTORS

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

PATENT

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In compliance with 37 CFR 1.97 and 1.98, Applicants bring to the attention of the U.S. Patent and Trademark Office information listed on the enclosed PTO/SB/08. A copy of the information is also enclosed.

Should any fee be required in connection with the filing of this Information Disclosure Statement, please charge such fee to Deposit Account No. 04-1928 (E. I. du Pont de Nemours and Company).

Respectfully submitted,

JONATHON O. NARITA
AGENT FOR APPLICANTS
Registration No.: 53,369
Telephone: (302) 695-3127
Facsimile: (302) 695-3125

Dated: February 10, 2004

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Application Number	10/668767
Filing Date	September 23, 2003
First Named Inventor	Steven Gutteridge Et. Al.
Art Unit	UNKNOWN
Examiner Name	UNKNOWN
Attorney Docket Number	BB1533USNA

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	1	CHRISTOPHER H. GEORGE ET AL., Ryanodine Receptor Mutations Associated With Stress-Induced Ventricular Tachycardia Mediate Increased Calcium Release in Stimulated Cardiomyocytes, Circ. Res. 93:531-540, 2003	<input type="checkbox"/>
	2	KINYA OTSU ET AL., Chromosome Mapping of Five Human Cardiac and Skeletal Muscle Sarcoplasmic Reticulum Protein Genes, Genomics, 17:507-509, 1993	<input type="checkbox"/>
	3	GIUSEPPE GIANNINI ET AL., The Ryanodine Receptor/Calcium Channel Genes are Widely and Differentially Expressed in Murine Brain and Peripheral Tissues, The Journal of Cell Biology, 128(5):893-904, 1995	<input type="checkbox"/>
	4	DAWEI JIANG ET AL., Enhanced Basal Activity of a Cardiac Ca ²⁺ Release channel (Ryanodine Receptor) Mutant Associated with Ventricular Tachycardia and Sudden Death, Circulation Research, 91:218-225, 2002	<input type="checkbox"/>
	5	XUEHONG XU ET AL., Molecular Cloning of cDNA Encoding a Drosophila Ryanodine Receptor and Functional Studies of the Carboxyl-Terminal Calcium Release Channel, Biophysical Journal, 78:1270-1281, 2000	<input type="checkbox"/>
	6	HIROSHI TAKESHIMA ET AL., Ca ²⁺ -induced Ca ²⁺ release in myocytes from dyspedic mice lacking the type-1 ryanodine receptor, The EMBO Journal 14(13):2999-3006, 1995	<input type="checkbox"/>

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	7	STEVEN O. MARX ET AL., PKA Phosphorylation Dissociates FKBP12.6 from the Calcium Release Channel (Ryanodine Receptor): Defective Regulation in Failing Hearts, Cell, Vol. 101:365-376, 2000	<input type="checkbox"/>
	8	ANDREW J. DINSMORE ET AL., Characterisation of Antibody Models of the Ryanodine Receptor for Use in High-Throughput Screening, Pestic Sci., Vol. 54:345-352, 1998	<input type="checkbox"/>
	9	TOSHIAKI IMAGAWA ET AL., Expression of Ca ²⁺ -Induced Ca ²⁺ Release Channel Activity from Cardiac Ryanodine Receptor cDNA in Chinese Hamster Ovary Cells, J. Biochem., Vol. 112:508-513, 1992	<input type="checkbox"/>
	10	BARBARA BRUCE ET AL., Screening for Ryanodine Receptor Type 2 Mutations in Families with Effort-Induced Polymorphic Ventricular Arrhythmias and Sudden Death, J. of Amer. Coll. of Card., Vol. 40(2):341-349, 2002	<input type="checkbox"/>
	11	GIAN ANTONIO DANELLI ET AL., Genetics of arrhythmogenic right ventricular cardiomyopathy, Current Opinion in Cardiology, Vol. 17:218-221, 2002	<input type="checkbox"/>
	12	MIEKO SHIWA ET AL., Molecular Cloning and characterization of ryanodine receptor from unfertilized sea urchin eggs, Am. J. Physiol. Reg. Integrative Comp., Vol. 282:R727-R737, 2002	<input type="checkbox"/>

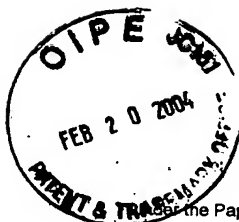
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	13	YASUO OGAWA ET AL., Ryanodine Receptor Isoforms in Excitation-Contraction Coupling, Adv. Biophys., Vol. 36:27-64, 1999	<input type="checkbox"/>
	14	G. LEES ET AL., Cell Culture Approaches to Invertebrate Neuroscience, Academic Press, New York, pp. 123-127, 1988	<input type="checkbox"/>
	15	TOSHIKI IMAGAWA ET AL., Expression of Ca ²⁺ -Induced Ca ²⁺ Release Channel Activity from Cardiac Ryanodine Receptor cDNA in Chinese Hamster Ovary Cells, J. Biochem., Vol. 112:508-513, 1992	<input type="checkbox"/>
	16	MANJUNATHA B. BHAT ET AL., Functional Calcium release Channel Formed by the Carboxyl-Terminal Portion of Ryanodine Receptor, Biophysical J., Volume 73:1329-1336, 1997	<input type="checkbox"/>
	17	NATASCIA TISO ET AL., The binding of the RyR2 calcium channel to its gating protein FKBP12.6 is oppositely affected by ARVD2 and VTSIP mutations, Biochem. & Biophys. Res. Comm., Vol. 299:594-598, 2002	<input type="checkbox"/>
	18	ISAAC N. PESSAH ET AL., Calcium-Ryanodine Receptor Complex, The J. of Biol. Chem., Vol. 261(19):8643-8648, 1986	<input type="checkbox"/>

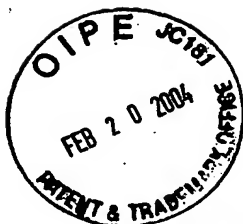
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	19	ELISABETH LEHMBERG ET AL., Similarity of Insect and Mammalian Ryanodine Binding Sites, Pesticide Biochem. & Phys., 48:145-152, 1994	<input type="checkbox"/>
	20	HIROSHI TAKESHIMA ET AL., Isolation and characterization of a gene for a ryanodine receptor/calcium release channel in Drosophila melanogaster, FEBS Letters, 337:81-87, 1994	<input type="checkbox"/>
	21	NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 456161, ACCESSION NO: D17389, MARCH 25, 1999, H. TAKESHIMA ET AL., Isolation and characterization of a gene for a ryanodine receptor/calcium release channel in Drosophila melanogaster	<input type="checkbox"/>
	22	NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 1871446, ACCESSION NO: D45899, DECEMBER 25, 2002, Y. SAKUBE ET AL., An abnormal ketamine response in mutants defective in the ryanodine receptor gene ryr-1 (unc-68) of Caenorhabditis elegans	<input type="checkbox"/>
	23	YASUJI SAKUBE ET AL., An Abnormal ketamine Response in Mutants Defective in the Ryanodine Receptor Gene ryr-1 (unc-68) of Caenorhabditis elegans, J. Mol. Biol., 267:849-864, 1997	<input type="checkbox"/>
	24	ELENA PUENTE ET AL., Identification of a polymorphic ryanodine receptor gene from Heliothis virescens (Lepidoptera: Noctuidae), Insect Biochem. & Mol. Biol., Vol. 30:335-347, 2000	<input type="checkbox"/>

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	25	NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 17352471, ACCESSION NO: 476994, DECEMBER 10, 2003, M. D. ADAMS ET AL., The genome sequence of Drosophila Melanogaster	<input type="checkbox"/>
	26	MARK D. ADAMS ET AL., The Genome Sequence of Drosophila Melanogaster, Science, Vol. 287:2185-2195,, 2000	<input type="checkbox"/>
	27	NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 21301556, ACCESSION NO: EAA17301, MAY 31, 2002, UNKNOWN AUTHOR, UNKNOWN TITLE	<input type="checkbox"/>
	28	NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 1871447, ACCESSION NO: BAA08309, DECEMBER 25, 2002, Y. SAKUBE ET AL., An abnormal ketamine response in mutants defective in the ryanodine receptor gene ryr-1 (unc-68) of Caenorhabditis elegans	<input type="checkbox"/>
	29	NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 18656155, ACCESSION NO: BAB84714, FEBRUARY 14, 2002, M. SHIWA ET AL., Molecular cloning and characterization of ryanodine receptor from unfertilized sea urchin eggs	<input type="checkbox"/>
	30	NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 13569850, ACCESSION NO: NP076357, DECEMBER 21, 2003, H. MASUMIYA ET AL., The mouse sino-atrial node expresses both the type 2 and type 3 Ca(2+) release channels/ryanodine receptors	<input type="checkbox"/>

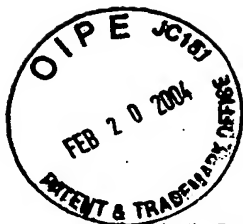
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	32	PATRICK MOST ET AL., Transgenic Overexpression of the Ca2+-binding Protein S100A1 in the Heart Leads to Increased in Vivo Myocardial Contractile Performance, J. of Biol. Chem., Vol. 278(36):33809-33817, 2003	<input type="checkbox"/>
	33	HUANG-TIAN YANG ET AL., The ryanodine receptor modulates the spontaneous beating rate of cardiomyocytes during development, PNAS, Vol. 99(14):9225-9230, 2002	<input type="checkbox"/>
	34	ANNE-VALERIE FAURE ET AL., Developmental expression of the calcium release channels during early neurogenesis of the mouse cerebral cortex, European J. of Neuroscience, Vol. 14:1613-1622, 2001	<input type="checkbox"/>
	35	MINGCAI ZHAO ET AL., Molecular Identification of the Ryanodine Receptor Pore-forming Segment, J. of Biol. Chem., Vol. 274(37):25971-25974, 1999	<input type="checkbox"/>
	36	HIROSHI TAKESHIMA ET AL., Embryonic lethality and abnormal cardiac myocytes in mice lacking ryanodine receptor type 2, The EMBO J., Vol. 17(12):3309-3316, 1998	<input type="checkbox"/>

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	38	JUNICHI NAKAI ET AL., Primary structure and functional expression from cDNA of the cardiac ryanodine receptor/calcium release channel, FEBS Vol. 271(1,2):169-177, 1990	<input type="checkbox"/>
	39	NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 4506757, ACCESSION NO: NP001026, DECEMBER 23, 2003, C.H. GEORGE ET AL., Ryanodine receptor mutations associated with stress-induced ventricular tachycardia mediate increased calcium release in stimulated cardiomyocytes	<input type="checkbox"/>
	40	CHRISTOPHER H. GEORGE ET AL., Ryanodine receptor mutations associated with stress-induced ventricular tachycardia mediate increased calcium release in stimulated cardiomyocytes, J. of Biol. Chem., Vol. 278(31):28856-28864, 2003	<input type="checkbox"/>
	41	JING ZHANG ET AL., Three-dimensional Localization of Divergent Region 3 of the Ryanodine Receptor to the Clamp-shaped Structures Adjacent to the FKBP Binding Sites, J. Biol. Chem., Vol. 278(16):14211-14218, 2003	<input type="checkbox"/>
	42	HARUKO MASUMIYA ET AL., Localization of the 12.6-kDa FK506-binding Protein (FKBP12.6) Binding Site to the NH2-terminal Domain of the Cardiac Ca ²⁺ Release Channel (Ryanodine Receptor), J. Biol. Chem., Vol. 278(6):3786-3792, 2003	<input type="checkbox"/>

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known

Application Number	10/668767
Filing Date	September 23, 2003
First Named Inventor	Steven Gutteridge Et. Al.
Art Unit	UNKNOWN
Examiner Name	UNKNOWN
Attorney Docket Number	BB1533USNA

Sheet 8 of 8

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	43	JIEFEI TONG ET AL., Caffeine and Halothane Sensitivity of Intracellular Ca ²⁺ Release is Altered by 15 Calcium Release Channel (Ryanodine Receptor) Mutations Associated with Malignant Hyperthermia and/or Central Core Disease, J. Biol. Chem., Vol. 272(42):26332-26339, 1997	<input type="checkbox"/>
	44	S. R. WAYNE CHEN ET AL., Antibodies as Probes for Ca ²⁺ Activation Sites in the Ca ²⁺ Release Channel (Ryanodine Receptor) of Rabbit Skeletal Muscle Sarcoplasmic Reticulum, J. Biol. Chem., Vol. 268(18):13414-1421, 1993	<input type="checkbox"/>
	45	CELETTA CALLAWAY ET AL., Localization of the High and Low Affinity [3H]Ryanodine binding Sites on the Skeletal Muscle Ca ²⁺ Release Channel, J. Biol. Chem., Vol. 269(22):15876-15884, 1994	<input type="checkbox"/>
	46	MELANIE SCHMITT ET AL., Binding Sites for Ca ²⁺ -Channel Effectors and Ryanodine in Periplaneta americana - Possible Targets for New Insecticides, Pestic Science, Vol. 48:375-385, 1996	<input type="checkbox"/>
	47	RICHARD E.A. TUNWELL ET AL., The human cardiac muscle ryanodine receptor-calcium release channel: identification, primary structure and topological analysis, Biochem. J. Vol. 318:477-487, 1996	<input type="checkbox"/>
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